

Claims

What is claimed is:

1. A coating station, which is intended for coating a web produced with a forming machine with a selected coating material, comprising a load-bearing and cross-directional frame, which extends substantially across the entire width of the web), as well as applicator elements supported to the frame for applying the coating material to the surface of the web arranged to pass through the coating station, characterized in that the frame is arranged by at least one cross component formed into a box-type structure out of sheet metal, the cross component extending substantially across the entire width of the web, as well as by end components, to which the cross component is attached by its end parts.

2. A coating station according to claim 1, characterized in that the cross component is removably adapted to attach to the end component with one or more screw connections or similar.

3. A coating station according to claim 1, characterized in that arranged inside the cross component there is at least one conduit extending substantially across the entire length of the cross component.

4. A coating station according to claim 3, characterized in that the conduit is formed of profiled sheet metal blade, which is attached to that side of the cross component, which is adapted straight, which thus forms a part of the conduit.

5. A coating station according to claim 1, characterized in that the number of cross components is 1 - 4.

6. A coating station according to claim 3, characterized in that the number of conduits is 1 - 5.

7. A coating station according to claim 1, characterized in that the end component is also made of sheet metal and is formed of two substantially similar sheet metal components, adapted at an interval from each other for forming a box-type structure.

8. A coating station according to claim 1, characterized in that the thickness of the sheet metal is 0.5 - 5 mm.

9. A coating station according to claim 8, characterized in that the thickness of the sheet metal is 1 - 3 mm.

10. A coating station according to claim 1, characterized in that the cross component, end component and sheet metal blade are laser-cut and laser-welded.

11. A coating station according to claim 1, characterized in that the applicator elements are non-contacting and comprise two nozzle units, with the therein included nozzles adapted to extend from inside the frame to the web side of the cross component for spraying the coating material onto the surface of the web.

12. A coating station according to claim 11, characterized in that the substantially similar nozzle units are adapted to operate alternately, for which

purpose each nozzle unit has been determined operating and maintenance positions, wherein the disabled nozzle unit is arranged in the maintenance position, which is located in the machine direction, further away from the web than the operating position.

13. A coating station according to claim 1, characterized in that the coating station comprises two substantially similar frame structures that include applicator elements, the frame structures being set opposed to and at an interval from each other, the web being thus adapted to pass between the frame structures for coating simultaneously both surfaces of the web.